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## LIST OF THE HEMIPTERA-HETEROPTERA OF MAINE.<sup>1</sup>

By H. M. PARSHLEY,

Bussey Institution, Harvard University.

The present list is the first of a series of papers in preparation by me on the Heteroptera of New England and is offered as a record of the species definitely known to inhabit Maine. In view of the great extent of almost inaccessible territory in the state and the relatively small amount of collecting which has been done, it is to be expected that additional species will be found, but I hope that the list is complete enough to be a useful basis for subsequent work, as it includes records of 175 species.

The records have been compiled chiefly from the following sources: An unpublished list of Maine Hemiptera by Mr. O. O. Stover, whose material was determined in part by Uhler, in part by Professor Osborn; the collection of the Maine Agricultural Experiment Station, determined largely by Mr. E. P. Van Duzee; the collection of Mr. F. A. Eddy of Bangor; the collection of the Boston Society of Natural History; and my own collection. The dates given are the earliest and latest which I have found on record for the several species.

My thanks are due the following, who have lent me their assistance: Dr. Edith M. Patch, who has put the collections and records of the Experiment Station at my disposal; Mr. J. R. de la Torre Bueno, who has determined a number of specimens and given valuable suggestions; Mr. F. A. Eddy, the veteran collector of Maine, who has permitted the free use of his valuable collection; Mr. C. W. Johnson, who has given me access to the collection of the Boston Society of Natural History; Mr. O. O. Stover, who has generously allowed me to make use of his unpublished records; and Mr. C. A. Frost, who has given me specimens of several species which otherwise would not have been recorded.

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<sup>1</sup> Papers from the Maine Agricultural Experiment Station; Entomology No. 74.

The arrangement of the families followed is that of the new system of Reuter,<sup>1</sup> with certain modifications in accordance with the views of Kirkaldy and Bueno.

## FAMILY CORIXIDÆ.

*Arctocorixa* Wallengren.

- A. interrupta* Say. 8 May. Orono.  
*A. nitida* Fieb. 24 April-1 May. Orono.

*Corixa* Geoffroy.

- C. alternata* Say. 15 April-13 Oct. Orono.  
*C. harrisii* Uhl. Orono.  
*C. kennicotti* Uhl. 21 April.

## FAMILY NOTONECTIDÆ.

*Notonecta* Linné.

- N. insulata* Kirby. 27 April. Orono.  
*N. irrorata* Uhl. 22 May-19 Sept. Orono, Machias.  
*N. undulata* Say. 8 May-17 Oct. Orono.  
*N. variabilis* Fieb. 20 April-15 Sept. Orono.

*Buenoa* Kirkaldy.

(= *Anisops*, American species.)

- B. elegans* Fieb. Orono.

## FAMILY BELOSTOMATIDÆ.

*Belostoma* Latreille.

(= *Zaitha* Auct.)

- B. flumineum* Say. 20 June (with eggs)—17 Oct. Orono.

*Lethocerus* Mayr.

(= *Belostoma* Auct.)

- L. americanus* Leidy. 8 May-12 Sept. Orono, Oldtown.

## FAMILY ACANTHIDÆ.

(= *Saldidæ* Auct.)

*Pentacora* Reuter.

- P. ligata* Say. Norway, Magalloway River.

*Acanthia* Fabricius.

- A. coriacea* Uhl. 4-11 July. Orono, Brewer.  
*A. major* Prov. (= *deplanata* Uhl.) Reported from the State by Uhler.

## FAMILY MIRIDÆ.

(= *Capsidæ* Auct.)

*Stenodema* Laporte.

- S. trispinosum* Reut. 16 June. The Forks.

<sup>1</sup>Oefv. Fin. Vet. Förh., vol. 54, p. 5 (1911-12).

**Miris** Fabricius.

- M. dolobratus* Linn. 31 May-14 July. Throughout the state.  
*M. vicinus* Prov. 22-31 May. Orono.

**Resthenia** Spinola.

- R. insignis* Say. 10 July-26 Sept. Paris, Mt. Kinco.

**Lopidea** Uhler.

- L. confluens* Say. 28 July-8 Aug. Orono, Camden.  
*L. media* Say. 12 July. Princeton.

**Phytocoris** Fallen.

- P. eximius* Reut. 30 June-11 July. Orono, Waldoboro.  
*P. pallidicornis* Reut. 16 Sept. Westbrook, Waldoboro, West Beach.  
*P. annulicornis* Reut. 17 Aug. Ft. Kent, Durham.  
*P. lasiomerus* Reut. 30 July. Orono.  
 Reported predaceous on aphids.

**Neurocolpus** Reuter.

- N. nubilus* Say. Orono.

**Calocoris** Fieber.

- C. norvegicus* Gmel. 15 July. Eastport.

**Adelphocoris** Reuter.

- A. rapidus* Say. 20 July-15 Aug. Orono, Brunswick, Pownal, etc.

**Lygus** Hahn.

- L. pabulinus* Linn. Orono.  
*L. pratensis* Linn. 7 May-12 Sept. Found everywhere.  
*L. pratensis* var. Red form so determined by Van Duzee. Orono.  
*L. convexicollis* Reut. 6 July-17 Sept. Orono.  
*L. invitus* Say. 5-27 July. Orono, Waldoboro, West Beach, Capens.  
*L. flavonotatus* Prov. Orono. °

**Lygidea** Reuter.

- L. mendax* Reut. 30 June. Orono.  
*L. rubecula* Uhl. 18 July. Moosehead.

**Coccobaphes** Uhler.

- C. sanguinarius* Uhl. 27 June-3 Aug. Monmouth, Manchester.

**Tropidosteptes** Uhler.

- T. ? pettiti* Reut. Rangeley.

**Horcias** Distant.

- H. limbatellus* Walk. 15 Aug.

**Pœciloscytus** Fieber.

- P. basalis* Reut. 13 Oct. Westbrook.  
*P. divergens* Reut. 11 July. Capens.

*Pœcilocapsus* Reuter.*P. dislocatus* var. *goniphorus* Say. 15 Aug. Orono.*P. lineatus* Fab. 14 July-17 Aug. Orono, Machias, Eastport.*Campptobrochis* Fieber.*C. nitens* Reut. 11 July-15 Aug. Orono.*Capsus* Fabricius.*C. ater* Linn. 19 June-18 July. Capens, Orono, Eastport.*Monalocoris* Dahlbom.*M. filicis* Linn. 31 May-17 Aug. Bethel, Orono, Ft. Kent, Pownal.*Diaphnidia* Uhler.*D. pellucida* Uhl. 22 July. Orono.

On potato plants.

*Hyaliodes* Reuter.*H. vitripennis* Say. 17 Aug. Ft. Kent.*Cyrtorrhinus* Fieber*C. marginatus* Uhl. 18-28 July. Moosehead, Orono.*Pilophorus* Westwood.*P. amœnus* Uhl. Collected in Maine by Packard.*Orthotylus* Fieber.*O. flavosparsus* Sahlb. 22-30 July. Orono.

On potato plants.

*O. congrex* Uhl. 10 July. Calais.*Collaria* Provancher.*C. meilleurii* Prov. 17 Aug. Ft. Kent, Orono.*C. oculata* Reut. Durham.*Halticus* Hahn.*H. citri* Ashmead. Pownal.*Stiphrosoma* Fieber.*S. stygica* say. 17 Aug. Ft. Kent.*Idolocoris* Douglas and Scott.*I. agilis* Uhl. Pownal.*Orectoderus* Uhler.*O. obliquus* Uhl. 26 July. Machias.*Lopus* Hahn.*L. decolor* Fall. 15 July. Pownal.*Megalocoleus* Reuter.*M. coagulatus* Uhl. Pownal.

## Plagiognathus Fieber.

- P. fraternus* Uhl. 13 Sept. Westbrook.  
*P. fuscus* Prov. 11 July-3 Aug. Orono, Waldoboro, Pownal.  
*P. politus* Uhl. 14 July-13 Sept. Orono, Westbrook.  
*P. obscurus* Uhl. 10 July-17 Aug. Calais, Ft. Kent.

So recorded probably = *fuscus*.

This family has been little collected, and doubtless many more species inhabit the state. I intend to pay special attention to the group, and give this arrangement as merely tentative.

## FAMILY ANTHOCORIDÆ.

## Anthocoris Fallen.

- A. musculus* Say. 30 April-19 Aug. Orono, Ft. Kent.

## Lycocoris Hahn.

- L. fitchii* Reut. 28 June. Orono.

## Triphleps Fieber,

- T. insidiosus* Say. 22 June. Orono, Pownal.

## FAMILY CLINOCORIDÆ.

(= *Cimicidæ* Auct.)

## Clinocoris Fallen.

- C. lectularius* Linn.

Seasons and distribution no more restricted than in other regions.

- C. ? hirundinis* Jenyns.

There is a specimen in the Station collection taken from a swallow's nest and so labelled, but probably this species is strictly European.

## FAMILY NABIDÆ.

## Pagasa Stal.

- P. fusca* Stein. Orono.

## Reduviolus Kirby.

- R. subcoleopratus* Kirby. 7 July-27 Aug. Orono, Belfast, Ft. Kent.  
*R. rufusculus* Reut. 8 May-5 Oct. Orono, West Beach, Waldoboro.  
*R. ferus* Linn. 17 April-5 Oct. Generally distributed, Orono, etc.

## FAMILY NEPIDÆ.

## Ranatra Fabricius.

- R. americana* Mont. 4 Oct. Orono.

This species has been confused with both *fusca* Beauv. and *quadridentata* Stal. *Nepa apiculata* Harr. should be found in the state, as its known range includes this region.

## FAMILY HYDROMETRIDÆ.

## Hydrometra Latreille.

- H. martini* Kirk. 6 May-17 July. Orono, Monmouth.

## FAMILY REDUVIIDÆ.

*Pygolampis* Germar.*P. pectoralis* Say. Manchester.*Reduvius* Lamarek.*R. personatus* Linn. 19 June-24 Aug. Orono, Pownal, Brunswick.*Apiomerus* Hahn.*A. ventralis* Say. 26 June. Monmouth.*Zelus* Fabricius.*Z. exsanguis* Stal. (= *luridus* Stal.) Manchester.*Z. socius* Uhl. 18 July. Monmouth.*Fitchia* Stal.*F. aptera* Stal. 31 May-29 June. Manchester, Orono, Monmouth.  
Records of the winged form have not come to my notice.*Acholla* Stal.*A. multispinosa* De Geer.*Sinea* Amyot et Serville.*S. diadema* Fab. 4 July-8 Aug. Orono.

## (SUBFAMILY EMESINÆ.)

*Ploiariodes* White.*P. tuberculata* Banks. 27 June. Monmouth.

## FAMILY MACROCEPHALIDÆ.

(= *Phymatidæ* Auct.)*Phymata fasciata* Gray should be found in the state, but definite records have not come to my notice.

## FAMILY GERRIDÆ.

*Gerris* Fabricius.*G. remigis* Say. 20 April-17 May. Orono.*G. conformis* Uhl. 22 Sept. Orono.*G. marginatus* Say. 10 May-19 July. Orono, Westbrook, Norway, Durham.*G. buenoi* Kirk. 1 May-15 Sept. Orono.*Limnopus* Stal.*L. rufoscutellatus* Latr. 6 May-19 July. Orono, Brunswick, Norway.*Trepobates* Uhler.*T. pictus* Her.-Schfr. 15 Sept. Orono.*Metrobates* Uhler.*M. hesperius* Uhl. 22 Sept. Orono.

## FAMILY VELIIDÆ.

*Microvelia* Westwood.

*M. americana* Uhl. 17 May-19 Sept. Orono, Pownal, Paris.

*M. borealis* Bueno MSS. 3 May. Orono.

I took specimens of this species in a temporary puddle in a wagon road through a field.

*Rhagovelia* Mayr.

*R. obesa* Uhl. 15 July. Paris.

## FAMILY TINGITIDÆ.

*Corythuca* Stal.

*C. ciliata* Say. Collected in Maine by Packard.

*C. juglandis* Fitch. 4-6 June. Orono.

*C. arcuata* Say. May-17 June. Ft. Kent, Brunswick, Bethel.

*C. pergandei* Heid. 22 May-17 Sept. Orono.

*Leptobyrsa* Stal.

*L. explanata* Heid. Bar Harbor.

*Physatochila* Fieber.

*P. plexa* Say. Westbrook.

*Tingis* Fabricius.

*T. (Melanorhopala) clavata* Stal.

The occurrence of this species is reported in the Station records, but I have been unable to locate an actual specimen.

## FAMILY MYODOCHIDÆ.

(= *Lygæidæ* olim)

*Ischnorhynchus* Fieber.

*I. geminatus* Say. 22 May-11 Sept. Orono.

Records of *I. resedæ* Panz. probably refer to this species.

*Cymus* Hahn.

*C. luridus* Stal. 24 May. Orono.

*C. angustatus* Stal. 10-26 June. Westbrook, Orono, Holden.

*C. discors* Horv. 20 June. Orono.

*Blissus* Burmeister.

*B. leucopterus* Say. 13 April-3 May. Jackman, Orono.

*B. hirtus* Mont. 7 April-12 May. Orono.

These two species are very closely allied, and may not be distinct. I found them together under stones in early spring.

*Phlegyas* Stal.

*P. annulicrus* Stal. 23 June. Holden.

**Ædancala** Amyot et Serville.**Æ. dorsalis** Say.

Reported from the state by Stover, but I have not been able to find definite data.

**Nysius** Dallas.

**N. ericæ** Schill. 28 Sept. Orono, Westbrook, Pownal.

**N. longiceps** Stal. 28 July. Orono.

**Belonochilus** Uhler.

**B. numenius** Say. 10 Sept. Orono.

**Orsillus** Dallas.

**O. scolopax** Say. Portland.

Uhler recorded this species as abundant on dry sedges near Portland.

**Lygæus** Fabricius.

**L. kalmii** Stal. 27 July-11 Aug. Orono, Green Lake.

**L. turcicus** Fab. Orono, Waldoboro.

**Cligenes** Distant.

**C. pallidus** Uhl. 22 April. Orono.

**Ligyrocoris** Stal.

**L. contractus** Say. 2-12 Sept. Orono.

**L. diffusus** Uhl. 2-15 Sept. Orono.

**Myodocha** Latreille.

**M. serripes** Oliv. 24-30 May. Orono.

**Sphærobius** Uhler.

**S. insignis** Uhl. 25 Sept. Westbrook.

**Cnemodus** Herrich-Schaeffer.

**C. mavortius** Say. 19 June. Skowhegan.

**Sphragisticus** Stal.

**S. nebulosus** Fallen. 13 Sept. Pownal.

**Eremocoris** Fieber.

**E. ferus** Say. 27 April-13 Sept. Holden, Orono, Pownal, Capens.

**Drymus** Fieber.

**D. unus** Say. Orono.

**Scolopostethus** Fieber.

**S. ? atlanticus** Horv. 29 March. Orono.

**S. diffidens** Horv. 30 April. Orono.

**Xestocoris** Van Duzee.

**X. nitens** V. D. 22 April. Orono.



## Geocoris Fallen.

*G. bullatus* Say. 15 June–20 July. Orono, Pownal.

## FAMILY NEIDID.E.

(= *Berytidae* olim)

## Neides Latreille.

*N. muticus* Say. 10 June–14 Aug. Orono.

## Jalysus Stal.

*J. spinosus* Say. 6 June. Bangor.

## FAMILY ARADID.E.

## Aradus Fabricius.

*A. æqualis* Say.

*A. robustus* Uhl. 24 April–27 June. Orono, Monmouth, Manchester.

*A. similis* Say. 29 April–4 June. Orono.

*A. acutus* Say. Norway.

*A. niger* Stal. 29 March–11 May. Orono.

*A. quadrilineatus* Say. 17 June–19 July. Holden, Paris, Monmouth.

*A. hubbardi* Heid. 4 June. Orono.

*A. lugubris* Fall. 7 June. Orono, Norway.

*A. abbas* Bergr. 17 July–17 Aug. Ft. Kent, Machias.

## Aneurus Curtis.

*A. inconstans* Uhl. 24 Sept. Orono.

## FAMILY CORIZID.E.

## Corizus Fallen.

*C. crassicornis* Linn. (= *punctiventris* Auct.) 31 May–7 Sept. Ft. Kent, Orono.

*C. lateralis* Say. Orono.

*Harmostes reflexulus* Say doubtless occurs, but no definite record has come to my notice.

## FAMILY COREID.E.

## Anasa Amyot et Serville.

*A. tristis* De Geer. 22 June–17 Oct. Orono and numerous other localities.

## Corynocoris Mayr.

*C. typhæus* Fab. 10 May. Orono.

I took twelve specimens of this species as they flew up, one by one, to the dried body of a long dead fowl. Some alighted nearby and others disappeared within the carcass. I was unable to determine whether they came to feed on the juices of the carrion or to prey on other insects, and they may have been attracted merely by the odor. I believe that there are few if any so positive records of the frequenting of carrion by Heteroptera.

## FAMILY ALYDID.E.

*Alydus* Fabricius.

- A. eurinus* Say. 19 June. Orono.  
*A. pilosulus* Her.-Schfr. 8 Sept. Orono.  
*A. conspersus* Mont. June-10 Aug. Orono, Ashland.

*Megalotomus* Fieber.

- M. quinquespinosus* Say. 5 Aug.-28 Sept. Orono, S. Orrington.

*Protenor* Stal.

- P. belfragei* Hagl. 15 July-11 Sept. Orono, Pushaw Lake, Norway.

## FAMILY PENTATOMID.E.

*(Cimicidæ* Kirk.)*Elasmostethus* Fieber.

- E. cruciatus* Say. 12 June-31 Aug. Orono, Paris, Ft. Kent, N. E. Harbor, Chamberlain Lake.

*Elasmucha* Stal.

- E. lateralis* Say. 4 July-30 Sept. Mt. Katahdin, Kineo, Capens, Mercer, N. E. Harbor.

*Pentatoma* Olivier.

- P. persimilis* Horv. 15 May-26 Sept. Orono, Caribou, Monmouth, Cherryfield.

*Mormidea* Amyot et Serville.

- M. lugens* Fab. 25 July-2 Sept. Orono, near Portland.

*Euschistus* Dallas.

- E. euschistoides* Voll. (= *fissilis* Uhl.) 18 June-11 Sept. Orono, Pownal, etc.  
*E. tristigmus* Say. 27 May-17 Sept. Orono, Houlton, Wales, Pownal.  
*E. variolarius* Pal. Beauv. Orono.

No doubt *E. ictericus* Linn. will be found, as its known range seems to include the state.

*Cœnus* Dallas.

- C. delius* Say. 5 May-17 Sept. Orono, Bar Harbor.

*Neottiglossa* Kirby.

- N. undata* Say. 19 May-31 Aug. Orono, Bar Harbor.

*Cosmopepla* Stal.

- C. carnifex* Fab. (*tiutneriana* Kirk.) 31 May-17 Sept. Capens, Orono, Ft. Fairfield, Eastport.

*Banasa* Stal.

- B. calva* Say. Orono, Manchester.  
*B. dimidiata* Say. 16 June-28 Sept. Orono, S. Orrington, Bangor, Sherman.

**Perilloides** Schouteden.*(Perillus* Stal., in part.)**P. exaptus** Say. 19 May–30 Aug. Orono, Wales, Monmouth.**P. circumcinctus** Stal. 17 May. Pownal.**Zicrona** Amyot et Serville.**Z. cærulea** Linn. 22 to 24 June. Newbury Neck, near Surrey.

I have one specimen of this species taken by Mr. F. A. Eddy on the coast. As far as I know it has hitherto been reported only from the West and from Mt. Washington, N. H.

**Apateticus** Dallas.*(= Podisus* Herrich-Schaeffer.)**A. cynicus** Say. 25 Aug.–2 Sept. Orono. Pittsfield.**A. bracteatus** Fitch. 6–24 Aug. Long Island in Penobscot Bay, Houlton.**A. maculiventris** Say. 11 June–13 Sept. Orono, Norway, Pownal.**A. sereiventris** Uhler. 29 May–3 Aug. Orono.**A. modestus** Dallas. 24 June–17 Aug. Orono, Bangor, Pownal, Monmouth.

## FAMILY THYREOCORIDÆ.

*(incl. Cydnidæ)***Sehirus** Amyot et Serville.

**S. cinctus** Pal.-Beauv. 30 April–31 Aug. The Forks, Orono, Bangor, Chamberlain Lake.

**Thyreocoris** Schrank.**T. nitiduloides** Wolff. 14 June–21 Aug. Orono, Deering, Norway.**T. pulicaria** Germ. 8 May. Orono.**T. unicolor** Pal.-Beauv. 30 April–15 Sept. Orono, Pownal, Norway.

## FAMILY SCUTELLERIDÆ.

**Homœmus** Dallas.**H. æneifrons** Say. 22 July–12 Sept. Orono, Machias, Ft. Kent, Ashland.**Eurygaster** Laporte.**E. alternata** Say. 8 May–21 Aug. Orono, Houlton, Pownal, W. Beach.

## NEW AND LITTLE KNOWN HARVESTING ANTS OF THE GENUS POGONOMYRMEX.<sup>1</sup>

BY WILLIAM MORTON WHEELER.

1. *Pogonomyrmex guatemaltecus* sp. nov.

*Worker.* Length 5–5.5 mm.

Head subrectangular, excluding the mandibles a little longer than broad, with nearly straight sides, feebly excised posterior margin and prominent anterior cor-

<sup>1</sup>Contributions from the Entomological Laboratory of the Bussey Institution, Harvard University, No. 80.